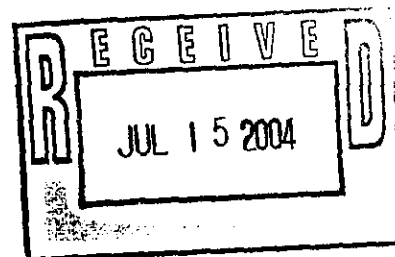




2 July 2004

Mr. Steve Trent
 Fluor Hanford Inc.
 825 Jadwin Ave.
 Richland, WA 99352

Subject: Contract No. 630
Analytical Data Package



Dear Mr. Trent:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0406L797
SDG #	H2614
SAF #	F04-016
Date Received	6-8-04
# Samples	1
Matrix	Water
Volatiles	
Semivolatiles	
Pest/PCB	
DRO/GRO/KRO	
Herbicides	
GC Alcohol	
Metals	
Inorganics	X

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,
 Lionville Laboratory Incorporated

[Signature]
 Orlette S. Johnson
 Project Manager

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F04-016 H2614

DATE RECEIVED: 06/08/04

LVL LOT # :0406L797

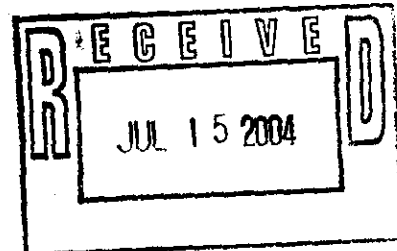
CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
---------------------	-------	-----	--------	------------	-----------	----------

B195V7

NITRATE NITRITE	001	W	04LN3B34	06/02/04	06/16/04	06/16/04
NITRATE NITRITE	001 REP	W	04LN3B34	06/02/04	06/16/04	06/16/04
NITRATE NITRITE	001 MS	W	04LN3B34	06/02/04	06/16/04	06/16/04

LAB QC:

NITRATE NITRITE	MB1	W	04LN3B34	N/A	06/16/04	06/16/04
NITRATE NITRITE	MB1 BS	W	04LN3B34	N/A	06/16/04	06/16/04






Analytical Report

Client: TNU-HANFORD F04-016 H2614
LVL#: 0406L797

W.O.#: 11343-606-001-9999-00
Date Received: 06-08-04

INORGANIC NARRATIVE

1. This narrative covers the analysis of 1 water sample.
2. The sample was prepared and analyzed in accordance with the method checked on the attached glossary.
3. Sample holding time as required by the method and/or contract was met.
4. The results presented in this report are derived from a sample that met LvLI's sample acceptance policy.
5. The method blank was within the method criteria.
6. The Laboratory Control Sample (LCS) was within the laboratory control limits.
7. The matrix spike recovery was within the 75-125% control limits.
8. The replicate analysis was within the 20% Relative Percent Difference (RPD) control limit.
9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

njpl06-797

6/23/04
Date

The results presented in this report relate to the analytical testing and conditions of the samples upon receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 11 pages.

Lionville Laboratory Incorporated

WET CHEMISTRY

METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	<u>EPA /600</u>	<u>SW846</u>	<u>OTHER</u>
Acidity	305.1		
___ Alkalinity ___ Bicarbonate ___ Carbonate	310.1		
BOD	405.1		___ 5210B (b)
Ion Chromatography:			
___ Bromide ___ Chloride ___ Fluoride	300.0	___ 9056	
___ Nitrate ___ Nitrite ___ Phosphate	300.0	___ 9056	
___ Sulfate ___ Formate ___ Acetate ___ Oxalate	300.0	___ 9056	
Chloride	325.2	___ 9251	
Chlorine, Residual	330.5 (mod)		
Cyanide, Amenable to Chlorination	335.2	___ 9010B	
Cyanide, Total	335.2	___ 9010B	___ 9014 ___ ILMO4.0 (e)
Cyanide, Weak Acid Dissociable			___ 412 (a) ___ 4500CN-I (b)
COD	410.4(mod)		___ 5220C (b)
Color	110.2		
Corrosivity by Coupon		___ 1110(mod)	
Chromium VI		___ 7196A	___ 3500Cr-D (b)
Fluoride	340.2		___ 4500-FC
Hardness, Calcium	215.2		
Hardness, Total	130.2		
Iodide			___ ASTM D19P202 (1)
Surfactant	425.1		
✓ ___ Nitrate-Nitrite ___ Nitrate ___ Nitrite	✓ 353.2		
Ammonia	350.3		
Total ___ Kjeldahl ___ Organic Nitrogen	351.3		
Total ___ Organic ___ Inorganic Carbon	415.1	___ 9060	
Oil & Grease	413.1	___ 9070	
___ pH ___ pH; paper	150.1	___ 9040B ___ 9041A	
Petroleum Hydrocarbons, Total Recoverable	418.1		
Phenol	420.1	___ 420.2 ___ 9065 ___ 9066	
___ Ortho ___ Total Phosphate	365.2		___ 4500-P B ___ C
Salinity			___ 210A (a) ___ 2520 (b)
Settleable Solids	160.5		
Sulfide	376.1	___ 9030B/9034 (acid soluble)	
Reactive ___ Cyanide ___ Sulfide		___ Section 7.3 (___ 9014 ___ 9030B)	
Silica	370.1		
Sulfite	377.1		
Sulfate	375.4	___ 9038	
Specific Conductance	120.1	___ 9050A	
Specific Gravity			___ D5057-90 ___ 213E (a)
Synthetic Precipitation Leach		___ 1312	
Total ___ Dissolved ___ Suspended ___ Solids	160 ___ .1 ___ .2 ___ .3		
Total Organic Halides	450.1	___ 9020B	
Turbidity	180.1		
Volatile Solids:			
___ Total ___ Dissolved ___ Suspended	160.4		
Other:		Method:	

Lionville Laboratory Incorporated

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

- U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.
- * = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

- MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LC = Laboratory Control Sample.
NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

ANALYTICAL WET CHEMISTRY METHODS

1. ASTM Standard Methods.
2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
3. Test Methods for Evaluating Solid Waste (USEPA SW-846).
 - a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).
 - b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
 - c. Method of Soil Analysis, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
 - d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
 - e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
 - f. Code of Federal Regulations.

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 06/22/04

CLIENT: TNUHANFORD F04-016 H2614
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0406L797

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-----	-----	-----	-----	-----	-----	-----
-001	B195V7	Nitrate Nitrite	0.020u	MG/L	0.020	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 06/22/04

CLIENT: TNUHANFORD F04-016 H2614
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0406L797

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-----	-----	-----	-----	-----	-----	-----
BLANK10	04LN3B34-MB1	Nitrate Nitrite	0.020u	MG/L	0.020	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 06/22/04

CLIENT: TNUHANFORD F04-016 H2614
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0406L797

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-001	B195V7	Nitrate Nitrite	0.43	0.02u	0.50	86.4	1.0
BLANK10	04LN3B34-MB1	Nitrate Nitrite	0.51	0.02u	0.50	101.8	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 06/22/04

CLIENT: TNUHANFORD F04-016 H2614
WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0406L797

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR (REP)
-001REP	B195V7	Nitrate Nitrite	0.02u	0.02u	NC	1.0

A

Cooler Temp. °C

ORIGINAL
REWRITTEN

Holding Times
Y

Cooler Temp. °C

FLUOR Hanford Inc.		CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F04-016-003		Page 1 of 1	
Collector Pope/Pfister/Hughes/Wiberg		Company Contact CS Cearlock		Telephone No. 372-9638		Project Coordinator TRENT, SJ		Price Code 7N Data Turnaround 45 Days	
Project Designation 200-MW-1 Characterization Sampling and Analysis - QC		Sampling Location 216-A-4 Crib		SAF No. F04-016		Air Quality <input type="checkbox"/>			
Ice Chest No. GRP-01-007		Field Logbook No. HNF-N-3861		COA 119144ES10		Method of Shipment Federal Express			
Shipped To 6-2-04 EBERLINE SERVICES (Formerly TMA) REIRA		Offsite Property No. See PTR		Bill of Lading/Air Bill No. See PTR					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A Samples did not originate in radiological controlled area. No total activity associated with sample/samples. Special Handling and/or Storage N/A				Preservation		H2SO4 to pH < 2 Cool 4C			
				Type of Container		P			
				No. of Container(s)		1			
				Volume		500mL			
SAMPLE ANALYSIS				NO2/NO3 - 353.2 (Nitrogen in Nitrite and Nitrate)					
Sample No.		Matrix *		Sample Date		Sample Time			
B195V7		WATER		6-2-04		0930		X	
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
J.S. Pope / <i>[Signature]</i>		6-2-04 1000		M.A. 026 / <i>[Signature]</i> #1		6-2-04 1000			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
M.A. 026 / <i>[Signature]</i>		6/2/04 0900		M.A. 026 / <i>[Signature]</i>		6/2/04 0900			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
M.A. 026 / <i>[Signature]</i>		6/2/04 0900		M.A. 026 / <i>[Signature]</i>		6/2/04 0900			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
F.S. 026 / <i>[Signature]</i>		6/8/04 1015		F.S. 026 / <i>[Signature]</i>		6/8/04 1015			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title				Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By				Date/Time	

Lionville Laboratory Incorporated
SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: *TNA Hartford*

Date: *6/8/04*

Purchase Order / Project# /

~~SAEP~~ / SOW# / Release #: *F04-016*

LvLI Batch #:

0406L797

Sample Custodian:

[Signature]

NOTE: EXPLAIN ALL DISCREPANCIES

- | | | |
|---|---|---|
| 1. Samples Hand Delivered or <u>Shipped</u> | Carrier <i>Fed E</i> | Airbill# <i>79201576 4286</i> |
| 2. Custody seals on coolers or shipping container intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals Comments |
| 3. Outside of coolers or shipping containers are free from damage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 4. All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 5. Samples received cooled or ambient? | Temp <i>2.9</i> °C | Cooler # <i>GRP-04-007</i> |
| 6. Custody seals on sample containers intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals |
| 7. coc signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 8. Sample containers are intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 9. All samples on coc received? All samples received on coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 10. All sample label information matches coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 11. Samples properly preserved? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 12. Samples received within hold times? Short holds taken to wet lab? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 13. VOA, TOC, TOX free of headspace? | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 14. QC stickers placed on bottles designated by client? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 16. Project Manager contacted concerning discrepancies? name/date (or samples outside criteria) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Discrepancies |



Mr. Steve Trent
Fluor Hanford Inc.
825 Jadwin Ave.
Richland, WA 99352

Subject: Contract No. 630
Analytical Data Package

Dear Mr. Trent:

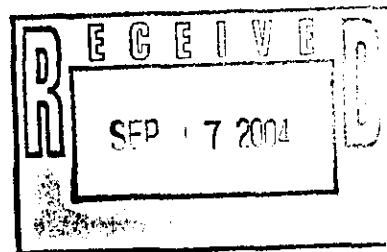
Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0407L053
SDG #	H2640
SAF #	F04-018
Date Received	7-15-04
# Samples	1
Matrix	Soil
Volatiles	
Semivolatiles	
Pest/PCB	
DRO/GRO/KRO	
Herbicides	
GC Alcohol	X
Metals	
Inorganics	

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,
Lionville Laboratory Incorporated


Orlette S. Johnson
Project Manager



r:\group\pm\orlette\tnu-hanford\data\fc_ltrs.doc

Lionville Laboratory, Inc.
8015 ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F04-018 H2640

DATE RECEIVED: 07/15/04

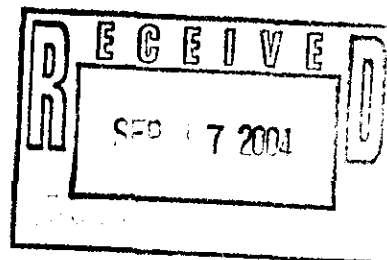
LVL LOT # :0407L053

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B199P7	001	S	04GCX029	05/25/04	08/10/04	08/12/04
B199P7	001 MS	S	04GCX029	05/25/04	08/10/04	08/12/04
B199P7	001 MSD	S	04GCX029	05/25/04	08/10/04	08/13/04

LAB QC:

BLK	MB1	S	04GCX029	N/A	08/10/04	08/12/04
BLK	MB1 BS	S	04GCX029	N/A	08/10/04	08/12/04
BLK	MB1 BSD	S	04GCX029	N/A	08/10/04	08/12/04

9/8/04



0000002



Analytical Report

Client: TNU HANFORD F04-018
LVL#: 0407L053
SDG/SAF#: H2640/F04-018

W.O.#: 11343-606-001-9999-00
Date Received: 07-15-2004

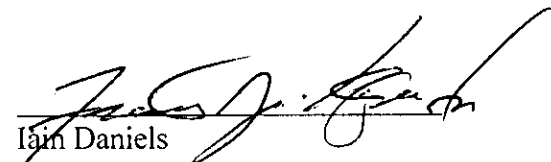
GC SCAN

One (1) soil sample was collected on 05-25-2004.

The sample and its associated QC samples were prepared on 08-10-2004 and analyzed for Ethylene Glycol on 08-12,13-2004. The sample was prepared according to micro extraction (i.e., 5g into 5mL of water) and analyzed according to Lionville Laboratory SOPs based on SW846, 3rd Edition procedure method 8015B.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from a sample that met LvLI's sample acceptance policy, with the exception of the discrepancies noted on the Sample Receipt Checklist (pg. 8).
2. The samples were received past technical holding time.
3. The method blank was below the reporting limit for the target compound Ethylene Glycol.
4. Surrogates are not currently employed in the methodology.
5. The blank spike recoveries were within acceptance criteria.
6. The matrix spike recoveries were within acceptance criteria.
7. The initial calibrations were within acceptance criteria.
8. The continuing calibration standard analyzed prior to sample extracts were within acceptance criteria.
9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated


Date

sdw:\group\data\gsc\0407-053-glycol.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 8 pages.



GLOSSARY OF DATA

DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.
- .I** = Indicates an interference on one analytical column only. Result is reported from remaining analytical column.

ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- NS** = Not Spiked.
- SP** = Indicates Spiked Compound.
- P** = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- D** = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C** = This flag applies to a compound that has been confirmed by GC/MS.
- NPM** = No pattern match for multi-component target analytes.

0 0 0 0 0 0 1

Lionville Laboratory, Inc.

Nonhalogenated Volatiles by GC, Method 8015

Report Date: 08/19/04 09:26

RFW Batch Number: 0407L053

Client: TNUHANFORD F04-018 H2640 Work Order: 11343606001 Page: 1

	Cust ID:	B199P7	B199P7	B199P7	BLK	BLK BS	BLK BSD
Sample	RFW#:	001	001 MS	001 MSD	04GCX029-MB1	04GCX029-MB1	04GCX029-MB1
Information	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====							
Ethylene Glycol		14.0 U	81 %	82 %	10.0 U	63 %	71 %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC



FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

04076053

Client TNU-HANFORD SAF# F04-018

Est. Final Proj. Sampling Date

Project # 11343-406-001-9999-00

Project Contact/Phone #

Lionville Laboratory Project Manager 0JQC Spec Del Std TAT 30 DaysDate Rec'd 7/15/04Date Due 8/14/04

Refrigerator #

#/Type Container

Liquid

Solid

Volume

Liquid

Solid

Preservatives

ANALYSES
REQUESTED

ORGANIC

VOA

BNA

Pest/

PCB

Herb

INORG

Metal

CN

Lionville Laboratory Use Only

MATRIX
CODES:

S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum
DL - Drum
L - EP/TCLP
Leachate
WI - Wipe
X - Other
F - Fish

Lab
ID

Client ID/Description

Matrix
QC
Chosen
(✓)

MS

MSD

Matrix

Date
CollectedTime
Collected

001 B199P7

✓✓

G

5/25/04

1035

G

Special Instructions:

DATE/REVISIONS:

1.

2.

3.

6.

OGCSCV (Dietly et al. #110011)

Need to change test code (a make an 08015
list that is the same as OGCSCV)

Lionville Laboratory Use Only

Samples were:

1) Shipped or
Hand Delivered
Airbill # See

2) Ambient or Chilled

3) Received in Good
Condition Y or N4) Samples
Properly Preserved Y or N5) Received Within
Holding Times Y or N

Tampor Resistant Seal was:

1) Present on Outer
Package Y or N2) Unbroken on Outer
Package Y or N3) Present on Sample
Y or N4) Unbroken on
Sample Y or NCOC Record Present
Upon Sample Rec'd Y or NCooler
Temp. °C

Relinquished

Received

Date

Time

Relinquished

Received

Date

Time

by Redoby RedoDate 7/15/04Time 1000by "COMPOSITE"by "ORIGINAL"

Date

Time

Discrepancies Between
Samples Labels and
COC Record? Y or N

NOTES:

6/24

E04-018

FLUOR Hanford Inc.		CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				E03-013-025		Page 1 of 1	
Collector Johansen	Company Contact Wright, CS	Telephone No. 373-3994		Project Coordinator TRENT, SJ		Price Code 8N		Data Turnaround 45 Days	
Project Designation CY 2003 RCRA/CERCLA GW Well Installation Waste Disp		Sampling Location C4258		SAEN E03-013 E04-018		Air Quality <input type="checkbox"/>			
Ice Chest No. SML-69	Field Logbook No. HNF-N-3141	COA 118460ES10		Method of Shipment Government Vehicle					
Shipped To Waste Sampling & Characterization		Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A				Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	
Special Handling and/or Storage N/A				Type of Container	G	G	aG	Square Bottle - Poly	
				No. of Container(s)	3	3	1	1	
				Volume	40mL	40mL	120mL	500mL	
SAMPLE ANALYSIS				See item (1) in Special Instructions.	Alcohols, Glycols, & Ketones - 8015 (Diethyl ether, Methanol)	See item (2) in Special Instructions.	See item (1) in Special Instructions.		
Sample No.	Matrix *	Sample Date	Sample Time						
B199P7 W04000005	SOIL	5-25-04	1035	X	X	X	X		
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time	<p>The lab is to achieve a detection limit of 5 pCi/g for alpha and 10 pCi/g for beta. FH acknowledges that the analytical holding time for Nitrate by EPA Method 300.0 will not be met.</p> <p>(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) (1-Butanol, Acetonitrile, Hexane)</p> <p>(2) Semi-VOA - 8270A (TCL); Semi-VOA - 8270A (Add-On) (1,2,4-Trimethylbenzene, 2-Butoxyethanol, 3+4 Methylphenol (cresol, m+p), Benzyl alcohol, Cyclohexanone, Tributyl phosphate); TPH-Diesel Range - WTPH-D (Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range)</p> <p>(3) ICP Metals - 6010A (TAL) (Iron); ICP Metals - 6010A (Add-On) (Barium); ICPMS - 200.8 (TAL) (Aluminum, Chromium (Add-On) Lead, Uranium); IC Anions - 300.0 (Nitrogen in Nitrate, Nitrogen in Nitrite) cations (IC) - 300.7 (Nitrogen in Ammonium); Gross Alpha; Gross Beta; Gamma Spectroscopy Cesium-134/137, Cobalt-60, Europium-154, Europium-155, Americium-241, Antimony-125, Cesium-134, Radium-226/228, Uranium-233/234/235/238; ICPMS-200.8 TAL (Aluminum); Gross Alpha, Gross Beta, Cesium-137, Americium-241, Strontium-90, K-40</p>				<p>S=Soil SE=Sediment SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Thaw W=Wipe L=Liquid V=Vegetation X=Other</p>	
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time						
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time						
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time						
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time						
LABORATORY SECTION	Received By	Title				Date/Time			
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By				Date/Time			

FLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						F04-018-006	PAGE 1	OF 1	
COLLECTOR ALEXANDER J. Jensen, TM		COMPANY CONTACT Chris Wright		TELEPHONE NO. 373-3994		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION C4258		PROJECT DESIGNATION RCRA Groundwater Well Drilling Waste Designation for CY 2004				SAF NO. F04-018		AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO. SHWS-104		FIELD LOGBOOK NO. HNF-N-3141		COA 118460E510		METHOD OF SHIPMENT Federal Express					
SHIP TO Baseline Services Keira		OFFSITE PROPERTY NO. See PTR 13785				BILL OF LADING/AIR BILL NO. Su PTR 13785					
MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool 4C								
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Samples did not originate in radiological controlled area. No total activity associated with sample/samples.	TYPE OF CONTAINER	aGs*								
		NO. OF CONTAINER(S)	3								
		VOLUME	40mL								
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS								
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B199P7	SOIL	5/25/04	1035	X							
CHAIN OF POSSESSION		SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS					
RELINQUISHED BY/REMOVED FROM M. Hansen 7/13/04 1410		DATE/TIME		RELINQUISHED BY/REMOVED FROM Ref #1 mo-026 7/13/04 1410		(1)Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol, Methanol}					
RELINQUISHED BY/REMOVED FROM mo-026 Ref 1 7/14/04 0745		DATE/TIME		RELINQUISHED BY/REMOVED FROM M.H. Baehler M.H. Baehler 7/14/04 0745		CAC from on-site lab attached to show chain of possession. Sample submitted to off site lab for analysis. MAS 7/14/04					
RELINQUISHED BY/REMOVED FROM M.H. Baehler M.H. Baehler 7/14/04 0745		DATE/TIME		RELINQUISHED BY/REMOVED FROM Red Ex							
RELINQUISHED BY/REMOVED FROM Red Ex 7-15-04 1000		DATE/TIME		RELINQUISHED BY/REMOVED FROM V. Hermann 7-15-04 1000							
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM							
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM							
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM							
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM							
LABORATORY SECTION	RECEIVED BY	TITLE				DATE/TIME					
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY				DATE/TIME					

Lionville Laboratory Incorporated
SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: *TNU Hanford*

Date: *7-15-04*

Purchase Order / Project# /

SAP# / SOW# / Release #: *F04-018*

LvLI Batch #: *04076053*

Sample Custodian: *Will Hernandez*

NOTE: EXPLAIN ALL DISCREPANCIES

- | | | |
|---|--|--|
| 1. Samples Hand Delivered or <u>Shipped</u> | Carrier <i>FEDEX</i> | Airbill# <i>790698827137</i> |
| 2. Custody seals on coolers or shipping container intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals Comm |
| 3. Outside of coolers or shipping containers are free from damage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 4. All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 5. Samples received cooled or ambient? | Temp <i>4.3°</i> °C | Cooler # <i>SMC 69</i> |
| 6. Custody seals on sample containers intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals |
| 7. coc signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 8. Sample containers are intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 9. All samples on coc received? All samples received on coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 10. All sample label information matches coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 11. Samples properly preserved? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 12. Samples received within hold times? Short holds taken to wet lab? | <input checked="" type="checkbox"/> Yes <i>7-15-04</i> | <input checked="" type="checkbox"/> No <i>NO, holding time was extended all 08-17-04</i> |
| 13. VOA, TOC, TOX free of headspace? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 14. QC stickers placed on bottles designated by client? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy) | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <i>See item 13</i>
<i>gw 08-17-04</i> |
| 16. Project Manager contacted concerning discrepancies? name/date (or samples outside criteria) | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> No
Discrepancies |

Lionville Laboratory, Inc.
GCSC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F04-018 H2640

DATE RECEIVED: 07/15/04

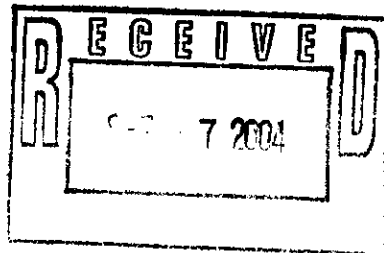
LVL LOT # :0407L053

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B199P7	001	S	04GCX029	05/25/04	08/10/04	08/12/04
B199P7	001 MS	S	04GCX029	05/25/04	08/10/04	08/12/04
B199P7	001 MSD	S	04GCX029	05/25/04	08/10/04	08/12/04

LAB QC:

BLK	MB1	S	04GCX029	N/A	08/10/04	08/12/04
BLK	MB1 BS	S	04GCX029	N/A	08/10/04	08/12/04
BLK	MB1 BSD	S	04GCX029	N/A	08/10/04	08/12/04

Bohner



0000010



Analytical Report

Client: TNU HANFORD F04-018
LVL#: 0407L053
SDG/SAF#: H2640/F04-018

W.O.#: 11343-606-001-9999-00
Date Received: 07-15-2004

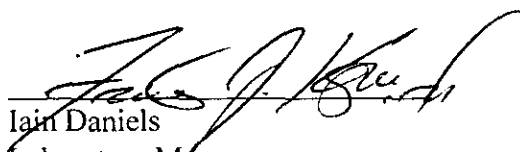
GC SCAN

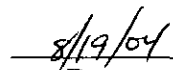
One (1) soil sample was collected on 05-25-2004.

The sample and its associated QC samples were prepared on 08-10-2004 and analyzed for Methanol and Ethyl Ether on 08-12-2004. The sample was prepared according to micro extraction (i.e., 5g into 5mL of water) and analyzed according to Lionville Laboratory SOPs based on SW846, 3rd Edition procedure method 8015B.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. All results presented in this report are derived from a sample that met LvLI's sample acceptance policy, with the exception of the discrepancies noted on the Sample Receipt Checklist (pg. 8).
2. The samples were received past technical holding time.
3. The method blank was below the reporting limit for the target compounds.
4. Surrogates are not currently employed in the methodology.
5. The blank spike recoveries were within acceptance criteria.
6. The matrix spike recoveries were within acceptance criteria.
7. The initial calibrations were within acceptance criteria.
8. The continuing calibration standard analyzed prior to sample extracts were within acceptance criteria.
9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated


Date

sdw:\group\data\gesc\0407-053-meoh.doc

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 8 pages.



GLOSSARY OF DATA

DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.
- .I** = Indicates an interference on one analytical column only. Result is reported from remaining analytical column.

ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- NS** = Not Spiked.
- SP** = Indicates Spiked Compound.
- P** = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- D** = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C** = This flag applies to a compound that has been confirmed by GC/MS.
- NPM** = No pattern match for multi-component target analytes.

Lionville Laboratory, Inc.

GC SCAN

Report Date: 08/18/04 08:19

RFW Batch Number: 0407L053

Client: TNUHANFORD F04-018 H2640 Work Order: 11343606001 Page: 1

	Cust ID:	B199P7	B199P7	B199P7	BLK	BLK BS	BLK BSD	
Sample	RFW#:	001	001 MS	001 MSD	04GCX029-MB1	04GCX029-MB1	04GCX029-MB1	
Information	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00	
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
=====fl=====fl=====fl=====fl=====fl=====fl=====fl=====								
Methanol		1.4 U	66 %	68 %	1.0 U	90 %	89 %	
Ethyl Ether		7.0 U	88 %	79 %	5.0 U	86 %	94 %	

Handwritten signature

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not reported. NS= Not spiked.
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. *= Outside of EPA CLP QC



FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

0407L053

Client TNU-HANFORD SAF# F04-018

Est. Final Proj. Sampling Date

Project # 11343-406-001-9999-00

Project Contact/Phone #

Lionville Laboratory Project Manager OJQC Spec Del Std TAT 30 DaysDate Rec'd 7/15/04 Date Due 8/14/04

Refrigerator #

#/Type Container

Liquid

Solid

Volume

Liquid

Solid

Preservatives

ANALYSES
REQUESTED

ORGANIC

VOA

BNA

Pest/

PCB

Herb

INORG

Metal

CN

Lionville Laboratory Use Only

MATRIX
CODES:

S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum
Solids
DL - Drum
Liquids
L - EP/TCLP
Leachate
WI - Wipe
X - Other
F - Fish

Lab
ID

Client ID/Description

Matrix
QC
Chosen
(✓)

MS

MSD

Matrix

Date
CollectedTime
Collected

001 B199P7

✓ ✓

5

5-25-04

1035

08015

DATE/REVISIONS:

Special Instructions:

OGCSCV (Dietlyt ether + Mcott)
Need to change test code (a make on 08015
list that is the same as OGCSCV)

Lionville Laboratory Use Only

Samples were:

1) Shipped or
Hand Delivered
Airbill # 512

2) Ambient or Chilled

3) Received in Good
Condition Y or N

4) Samples
Properly Preserved
Y or N

5) Received Within
Holding Times
Y or N

Tampor Resistant Seal was:

1) Present on Outer
Package Y or N

2) Unbroken on Outer
Package Y or N

3) Present on Sample
Y or N

4) Unbroken on
Sample Y or N

COC Record Present
Upon Sample Rec't
Y or N

Cooler
Temp. _____ °C

Relinquished
byReceived
by

Date

Time

Relinquished
byReceived
by

Date

Time

"COMPOSITE
WASTE"ORIGINAL
REWRITTEN

Discrepancies Between
Samples Labels and
COC Record? Y or N
NOTES:

6/24

E04-018

FLUOR Hanford Inc.		CENTRAL PLATEAU CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				E03-013-025 NOT 5-13-04		Page 1 of 1	
Collector Johansen	Company Contact Wright, CS	Telephone No. 373-3994		Project Coordinator TRENT, SJ		Price Code 8N		Data Turnaround 45 Days	
Project Designation CY 2003 RCRA/CERCLA GW Well Installation Waste Disp		Sampling Location C4258		SAE No. E03-013 E04-018		Air Quality <input type="checkbox"/>			
Ice Chest No. SML-69	Field Logbook No. HNF-N-3141	COA 118460ES10		Method of Shipment Government Vehicle					
Shipped To Waste Sampling & Characterization		Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS N/A				Preservation		Cool 4C	Cool 4C	Cool 4C	Cool 4C
Special Handling and/or Storage N/A				Type of Container		G	G	aG	Square Bottle - Poly
				No. of Container(s)		3	3	1	1
				Volume		40mL	40mL	120mL	500mL
				See item (1) in Special Instructions.		Alcohols, Glycols, & Ketones - 8015 (Diethyl ether, Methanol)		See item (2) in Special Instructions.	
				See item (1) in Special Instructions.		See item (1) in Special Instructions.			
SAMPLE ANALYSIS									
Sample No.	Matrix *	Sample Date	Sample Time						
B199P7 Wp4000d5	SOIL	5-25-04	1035	X	X	X	X		
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From M. J. Wright		Date/Time 5/25/04 1105		Received By/Stored In R. B. Wright		Date/Time 5/25/04 1105		<p>The lab is to achieve a detection limit of 5 pCi/g for alpha and 10 pCi/g for beta. FH acknowledges that the analytical holding time for Nitrate by EPA Method 300.0 will not be met.</p> <p>(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) (1-Butanol, Acetonitrile, Hexane) (2) Semi-VOA - 8270A (TCL); Semi-VOA - 8270A (Add-On) (1,2,4-Trimethylbenzene, 2-Butoxyethanol, 3,4-Methylphenol (cresol, m+p), Benzyl alcohol, Cyclohexanone, Tributyl phosphate); TPH-Diesel Range - WTPH-D (Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range) (3) ICP Metals - 6010A (TAL) (Iron); ICP Metals - 6010A (Add-on) (Bismuth); ICPMS - 200.8 (TAL) (Aluminum, Chromium) (Add-on) Lead, Uranium; IC Anions - 300.0 (Nitrogen in Nitrate, Nitrogen in Nitrite) Cations (IC) - 300.7 (Nitrogen in Ammonium); Gross Alpha; Gross Beta; Gamma Spectroscopy Cesium-134/137, Cobalt-60, Europium-154, Europium-155 Add-on Cesium-244, Antimony-125, Cesium-134, Radium 226/228, Uranium 238/234/235/239, ICPMS-200.8 TAL (Aluminum); Gross Alpha; Gross Beta; Cesium-137, Americium-241, Sm-153, K-40</p>	
Relinquished By/Removed From R. B. Wright		Date/Time 7/13/04 1340		Received By/Stored In M. J. Wright		Date/Time 7/13/04 1340			
Relinquished By/Removed From R. B. Wright		Date/Time 7-15-04 1000		Received By/Stored In R. B. Wright		Date/Time 7-15-04 1000			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

FLUOR Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F04-018-006		PAGE 1 OF 1		
COLLECTOR <i>M. J. Alexander</i> <i>Johansen, TM</i>		COMPANY CONTACT Chris Wright		TELEPHONE NO. 373-3994		PROJECT COORDINATOR TRENT, SJ		PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION <i>C4258</i>		PROJECT DESIGNATION RCRA Groundwater Well Drilling Waste Designation for CY 2004				SAF NO. F04-018		AIR QUALITY <input type="checkbox"/>		
ICE CHEST NO. <i>SAWS-104</i>		FIELD LOGBOOK NO. <i>HUF-N-341</i>		COA 118460ES10		METHOD OF SHIPMENT Federal Express				
SHIPPED TO <i>Rebra</i>		OFFSITE PROPERTY NO. <i>See PTR 13785</i>				BILL OF LADING/AIR BILL NO. <i>See PTR 13785</i>				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Samples did not originate in radiological controlled area. No total activity associated with sample/samples.		PRESERVATION Cool 4C							
			TYPE OF CONTAINER aGs*							
			NO. OF CONTAINER(S) 3							
	SPECIAL HANDLING AND/OR STORAGE		VOLUME 40mL		SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS					
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME				
B199P7		SOIL		5/25/04		1035		X		
CHAIN OF POSSESSION				SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS				
RELINQUISHED BY/REMOVED FROM <i>M. J. Alexander</i>		DATE/TIME <i>7/13/04 1410</i>		RELINQUISHED BY/REMOVED FROM <i>REF #1 MO-026</i>		DATE/TIME <i>7/13/04 1410</i>		(1)Alcohols, Glycols, & Ketones - 8015 {Diethyl ether, Ethylene glycol, Methanol} <i>COC from on-site lab attached to show chain of possession. Sample submitted to off site lab for analysis. MAB 7/14/04</i>		
RELINQUISHED BY/REMOVED FROM <i>MO-026</i>		DATE/TIME <i>7/14/04 0745</i>		RELINQUISHED BY/REMOVED FROM <i>M. J. Baughman</i>		DATE/TIME <i>7/14/04 0745</i>				
RELINQUISHED BY/REMOVED FROM <i>M. J. Baughman</i>		DATE/TIME <i>7/14/04 0745</i>		RELINQUISHED BY/REMOVED FROM <i>Ed Ex</i>		DATE/TIME <i>7/15/04 1000</i>				
RELINQUISHED BY/REMOVED FROM <i>Ed Ex</i>		DATE/TIME <i>7-15-04 1000</i>		RELINQUISHED BY/REMOVED FROM <i>Ed Ex</i>		DATE/TIME <i>7-15-04 1000</i>				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM		DATE/TIME				
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RELINQUISHED BY/REMOVED FROM		DATE/TIME				
LABORATORY SECTION		RECEIVED BY				TITLE		DATE/TIME		
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY		DATE/TIME		

Lionville Laboratory Incorporated
SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: *TNU Hanford*

Date: *7-15-04*

Purchase Order / Project# /

SAP# / SOW# / Release #: *F04-018*

LvLI Batch #:

04076053

Sample Custodian:

Vito Hernandez

NOTE: EXPLAIN ALL DISCREPANCIES

- | | | |
|---|---|--|
| 1. Samples Hand Delivered or <u>Shipped</u> | Carrier <i>FedEx</i> | Airbill# <i>790698827137</i> |
| 2. Custody seals on coolers or shipping container intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals Comments |
| 3. Outside of coolers or shipping containers are free from damage? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 4. All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 5. Samples received cooled or ambient? | Temp <i>4.3°</i> °C | Cooler # <i>SMC 69</i> |
| 6. Custody seals on sample containers intact, signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> No Seals |
| 7. coc signed and dated? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 8. Sample containers are intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 9. All samples on coc received? All samples received on coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 10. All sample label information matches coc? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 11. Samples properly preserved? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 12. Samples received within hold times? Short holds taken to wet lab? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 13. VOA, TOC, TOX free of headspace? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 14. QC stickers placed on bottles designated by client? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 16. Project Manager contacted concerning discrepancies? name/date (or samples outside criteria) | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> No Discrepancies |